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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,967	11/27/2001	Takashi Yamada	P 28403201F171	8085
7590	01/05/2004		EXAMINER	
Pillsbury Winthrop LLP Intellectual Property Group P O BOX 10500 McLean, VA 22102				LEWIS, MONICA
		ART UNIT	PAPER NUMBER	2822

DATE MAILED: 01/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.	09/993,967	Applicant(s)	YAMADA ET AL.
Examiner	Monica Lewis	Art Unit	2822

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 10 November 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

a) The period for reply expires 3 months from the mailing date of the final rejection.
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. The proposed amendment(s) will not be entered because:
 - (a) they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) they raise the issue of new matter (see Note below);
 - (c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____.

3. Applicant's reply has overcome the following rejection(s): _____.
4. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: _____.

Claim(s) withdrawn from consideration: _____.

8. The drawing correction filed on _____ is a) approved or b) disapproved by the Examiner.
9. Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____.
10. Other: _____ 

Continuation of 5. does NOT place the application in condition for allowance because: First, Applicant argues that "Lee does not teach a groove which extends into the dielectric." Lee teaches that the "trench isolation region 16 is formed in a semiconductor substrate 10 and that the dielectric film 20 is formed on an inner wall of the trenches." However, Lee teaches that a groove (16) that extends into the dielectric (20). According to Merriam-Webster a groove is defined as a long narrow channel which (16) exemplifies. Second, Applicant argues that "Lee does not teach that an impurity layer is formed to be in contact with the bottom surface of the semiconductor layer. However, Merriam-Webster defines contact as to join and join in is defined as to put or bring in to close association or relationship. Therefore, the impurity diffusion source (32) is formed to be in contact with the bottom surface of the semiconductor layer. There is no language stating that they are in "direct" contact. Finally, Applicant argues that "Lee does not teach that the groove has an increased width portion which is receded laterally as to expose a bottom surface of the semiconductor layer such that the width of the groove in the dielectric film is greater than that of the groove in the semiconductor layer." However, Malik discloses the limitations disclosed above (For Example: See Figure 10)